

Launch Mission Execution Forecast

Mission: Falcon 9 Starlink-L26

Issued: 12 May 2021 / 0800L (1200Z)

Valid: 15 May 2021 / 1824 – 1925L (2224 – 2325Z)



Forecast Discussion: A wet and stormy pattern will be in place for the next several days as a front slowly approaches central Florida from the north and stalls out over the area tomorrow. However, by Friday a weak wave of low pressure will develop along the front, helping to push the boundary well south of the Spaceport by Saturday. This will allow an area of strong high pressure centered over the mid-Atlantic states to take control of our weather. With the high centered well to our north and the front to our south, a relatively strong pressure gradient will create a breezy, onshore flow over the weekend. Because of this, a brief low-topped, onshore moving shower cannot be ruled out, but very dry air in the mid-levels combined with sinking air behind the sea breeze should limit their growth to be nothing more than a flight-through constraint. Therefore, the main concerns for Saturday's attempt are liftoff winds and the Cumulus Cloud Rule.

For Sunday, we will see very similar conditions as the high pressure slowly slides southeast and remains in control. Winds will shift slightly more to the east and will remain breezy. Similarly to Saturday, sinking, dry air in the mid-levels will continue to limit the growth of any onshore moving showers that are able to develop coming off the Atlantic. Thus, the main concerns will remain liftoff winds and the Cumulus Cloud Rule.

	Probability of Violating Weather Constraints								
Day	30% Primary Concerns: Liftoff Winds, Cumulus Cloud Rule								
ch	Weather Conditions							Additional Risk Criteria	
aunch	Weather/Visibility:		Iso'd Showers /7 mi.	Туре	Clouds Coverage Base (ft) Tops (ft)		Tops (ft)	Upper-Level Wind Shear:	Low
Έ	Temp/Humidity:		74°F / 75%	Cumulus	Scattered	3,000	9,000	Booster Recovery Weather:	Low
	Liftoff Winds (200'):		060° 17 - 22 mph					Solar Activity:	Low
,	Probability of Violating Weather Constraints								
Delay	30% Primary Concerns: Liftoff Winds, Cumulus Cloud Rule								
	Weather Conditions							Additional Risk Criteria	
24-Hour	Weather/Visibility:		Iso'd Showers / 7 mi.	Туре	Clouds Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low
24-	Temp/Humidity:		75°F / 70%	Cumulus	Scattered	3,000	7,000	Booster Recovery Weather:	Low
	Liftoff Winds (200'):		070° 17 - 22 mph	Cirrus	Scattered	26,000	29,000	Solar Activity:	Low
Note: The Probability of Violation (POV) is the chance that a Lightning Launch Commit Criteria (LLCC) or certain user constraints (surface winds, precipitation, and									

Note: The Probability of Violation (POV) is the chance that a Lightning Launch Commit Criteria (LLCC) or certain user constraints (surface winds, precipitation, and temperatures, etc.) will be violated during the launch window. It does not take into account upper-level wind shear, booster recovery weather, and solar activity.

Next Forecast Will Be Issued | 13 May 2021